QC ABSTRACT

Nameof Work: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:3:6	11.56 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M25	3.64 Cum	1	1	Concrete Cube Compressive Strength	-
3	M15	45.93 Cum	4	4	Concrete Cube Compressive Strength	-
4	M20	12.89 Cum	2	3	Concrete Cube Compressive Strength	-
5	Steel	1.40 Tonne	1	1	-	-
6	CC Blocks	75.38 Sqm	1	1	Concrete Blocks Compressive Strength	-
7	CPVC - 25mm	100.00 Mtrs	1	1	-	-
8	CPVC - 20mm	45.75 Mtrs	1	1	-	-
9	PVC - 200mm	50.00 Mtrs	1	1	-	-

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date: 06.11.2020

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		October - 2020
DATE OF TESTING		04.11.2020 to 06.11.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.

Date of Testing : 06.11.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2463	49.3	52.9	47.1	25-55
4.75	1958	39.2	92.1	7.9	0-10

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date : 06.11.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.

Date of Testing : 06.11.2020

Material : Sand(Plastering) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	18	1.80	3.20	96.8	95-100
1.18	35	3.50	6.70	93.3	90-100
600 Micron	76	7.60	14.30	85.7	80-100
300 Micron	256	25.60	39.90	60.1	20-65
150 Micron	498	49.80	89.70	10.3	0-15

3

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date : 09.11.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	: **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of Work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Steel Dia/Length	: 10mm,12mm " Fe500 TMT Bars
Reference to BIS codes	: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
	: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test	: 09.11.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	10	0.618	562	659	1.17	14
2	TMT	12	0.889	575	679	1.18	16.5

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21

Date : 11.11.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the Work : Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.

Date of Testing : 11.11.2020

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.2	275.3	4.59	2016.67	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	23.5	270.6	4.51	2016.67	
3	Block 3	26.2	274.8	4.58	2183.33	
4	Block 4	24.9	272.4	4.54	2075.00	

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date: 15.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2020	15.12.2020	8.165	619.3	27.52
2	17.11.2020	15.12.2020	8.198	625.8	27.81
3	17.11.2020	15.12.2020	8.184	638.4	28.37

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date: 25.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.11.2020	25.12.2020	8.145	502.2	22.32
2	27.11.2020	25.12.2020	8.138	516.4	22.95
3	27.11.2020	25.12.2020	8.184	488.9	21.73

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date: 16.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.12.2020	16.12.2020	8.132	266.8	11.86
2	09.12.2020	16.12.2020	8.140	276.5	12.29
3	09.12.2020	16.12.2020	8.125	284.5	12.64

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Job No.: CACE/BBMP/KRIDL/W.No.13/2020-21 Date: 18.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Project Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Improvements work at Mustering Centre for Pourakarmikas in Ward No.13, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2020	18.01.2021	8.169	375.6	16.69
2	21.12.2020	18.01.2021	8.188	389.3	17.30
3	21.12.2020	18.01.2021	8.176	392.4	17.44

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